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TITLE:

A process for the synthesis of alkyl  
5-carboxamidobenzimidazole-2-carbamates as  
anthelmintics.

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PATENT ASSIGNEE(S):

Council of Scientific and Industrial Research, India  
Indian, 7 pp.

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Patent

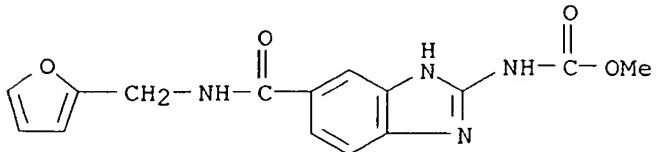
LANGUAGE:

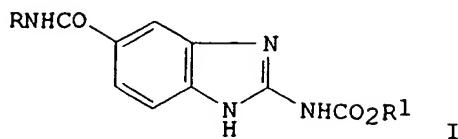
English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	IN 159210	A	19870411	IN 1982-DE22	19820111
IT	89791-21-9P				
	RL: SPN (Synthetic preparation); PREP (Preparation)				
	(prepn. of, as anthelmintic)				
RN	89791-21-9 CAPLUS				
CN	Carbamic acid, [5-[(2-furanylmethyl)amino]carbonyl]-1H-benzimidazol-2-yl]-, methyl ester (9CI) (CA INDEX NAME)				





AB The title compds. [I; R = alkyl, such as Me, aryl, such as 2-furylmethyl, (un)substituted Ph; R<sub>1</sub> = alkyl, such as Me, Et] were prep'd. as anthelmintics (no data) by converting 3,4-O<sub>2</sub>N(AcNH)C<sub>6</sub>H<sub>3</sub>CO<sub>2</sub>H (II) to its acid chloride and amidating with RNH<sub>2</sub>, deacetylylating, reducing to an o-phenylenediamine, and treating this latter with ClCO<sub>2</sub>R<sub>1</sub> and H<sub>2</sub>NC(:NH)SMe.H<sub>2</sub>SO<sub>4</sub> (III). II was carried through the process steps, including amidation with 2-furanmethanamine and cyclocondensation with ClCO<sub>2</sub>Me and III to give II (R = 2-furylmethyl, R<sub>1</sub> = Me). The yields for the steps were 95, 78, 70, and 40%, resp.

ACCESSION NUMBER: 1988:37831 CAPLUS

Delacroix